



# **Welding Total Solution**



**WELDING  
TOTAL  
SOLUTION**

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# HISTORY

▲  
**OVER  
40 YEARS**

**2013~**  
**Jumping up  
the next stage**

- 2013** Selected as a prestigious company of welding industry
- 2015** Smart welding system is developed

**2000~  
2013**  
**Development**

- 2001** Moved to Noksan Inno valley, Busan (Current location)
- 2003** Registered as a legal venture Enterprize
- 2005** Launch of Auto darkening Welding helmet
- 2007** Fume extraction system development is completed

**1976~  
1999**  
**Foundation**

- 1976** Mr. Geon Kook, Lee starts the company
- 1977** Successful launch of Vulcanized fiber welding helmet
- 1993** Welding cable factory is completed in Kimhae, Korea
- 1997** Global trading business is started

# CERTIFICATION



- 1989** Korea Standard Quality Ⓜ
- 1996** Electrical Appliances Safety for Rod Dryer(KC)
- 1998** KSA 9002 / ISO 9002
- 2003** Korea Occupational Safety & Health Agency (KCS)
- 2003** Electrical Appliances Safety for welding cable (KC)
- 2005** "Cooled Welding Fume Extraction torch" New Excellent Product (NEP)
- 2005** "Cooled welding fume Blow-off torch" New Excellent Product (NEP)
- 2007** Welding Shield (CE)
- 2007** Safety Oculars (CE)
- 2017** Welding torch (CE)

# NETWORK

ILHUNG believes reliable partnership makes better value.



## HEADQUARTERS

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**ASIA** China, Japan, Thailand, Philippines, Vietnam, Indonesia, Malaysia, Hongkong, Taiwan, Singapore, India, Egypt, UAE, Iraq, Turkey

**EUROPE** Italy, Switzerland, Netherlands, Russia, Greece, Denmark, Austria

**OCEANIA** Austrailia, New Zealand    **AMERICA** Canada, Mexico, Brazil

# PRODUCT LINE

## DEVELOPMENT & MANUFACTURING

### Welding Cable

CO2/Mig/Tig/Plasma torch cable  
 Connection cable  
 Arc Welding Cable  
 Robot Cable  
 Control Cable  
 Welding Line

### Welding Equipment

Mig/Tig/Plasma Torches  
 Flexible torch body  
 Arc holder  
 Pail pack cap  
 Smart welding system

### Environment

Welding Helmet  
 Fume extraction system

## TRADING

Welding Machine  
 Welding Wire  
 Welding Automation  
 Respiratory Protection

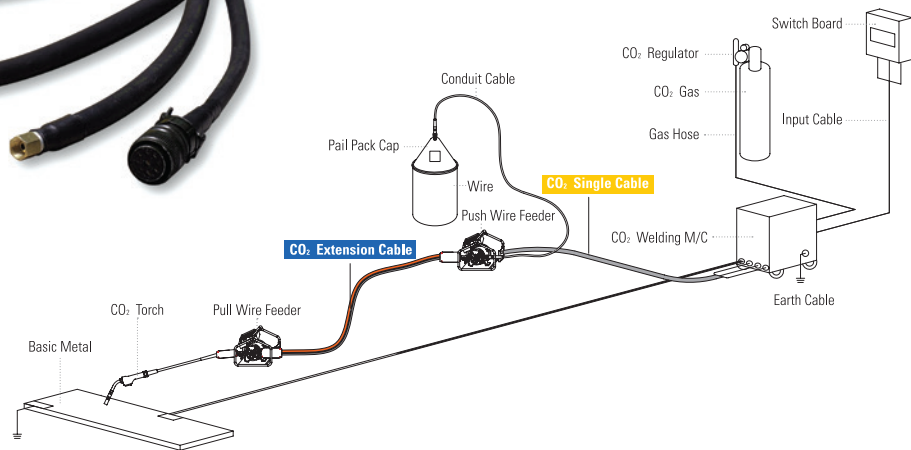
# CO<sub>2</sub> WELDING CONNECTION SINGLE CABLE

CO<sub>2</sub> single cable is combined power cable, gas hose, control cable in one jacket. It connects power machine to a wire feeder at long distance welding job, such as shipbuilding, construction, steel frame.



STS 60SQ+10Cx50M(IH)

## ARC WELDING PROCESS



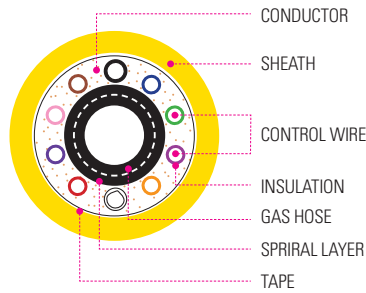
### Features

- Gas flow smoothly even in the non-linear state of 50M, and there is almost no drop of current and voltage.
- Ideal structure design prevents failure of welding equipment due to failure of cable and simple parts make it easy for anyone to repair or assemble the end connection parts.
- Gas hose and sheath material which are excellent in heat resistance, endurance and aging resistance are applied and it is strong against external impact.

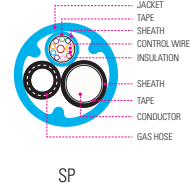
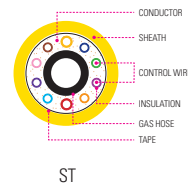
### Applications

- All wide welding sites that need to be extended in length
- Heavy industry and shipyard
- Construction
- Steel frame fabrication
- Large sized industrial machinery

## STS



### VARIOUS STRUCTURES



### Applications

- This cable connects welding machine and wire feeder and delivers power, CO<sub>2</sub> gas and control function.
- All types of working places that require long distance welding process by being connected between Power Source and Wire Feeder such as shipbuilding, construction, steel frame and large-scale industrial machinery fabrication.

### Features

- PE-thread-spiraled multilayer gas hose built in STS TYPE structure enhanced capacity to resist pressure.

Nominal sectional area (mm <sup>2</sup> )	Construction								Max. conductor resistance 20°C (Ω/km)	Min. insulation resistance 20°C (MΩ/km)	Test voltage (V/min)	Standard packing (m)	
	No. & Diameter of wire (mm)	Conductor		Gas Hose Thickness (mm)	Stranding Diameter (mm)	Tape Thickness (mm)	Sheath Thickness (mm)	Approx. Overall Diameter (mm)					
		Control wire insulation Thickness (mm)	Diameter (mm)										
30 + 1.25×2C + 0.75×8C	38	10/72/0.26	-	-	2.75	17.7	0.15	2.5	23.0 (± 0.5)	0.451	-	1,000	to order
	1.25	65/0.16	0.46	2.41						15.6	1,000		
	0.75	41/0.16	0.46	2.10						26.0	1,000		
	Gas Hose	8.0(I.D.)×S×13.5 (O.D)		-						-			
50 + 1.25×2C + 0.75×8C	38	13/72 /0.26	-	-	2.75	18.2	0.15	2.5	23.5 (± 0.5)	0.379	-	1,000	to order
	1.25	65/0.16	0.46	2.41						15.6	1,000		
	0.75	41/0.16	0.46	2.10						26.0	1,000		
	Gas Hose	8.0(I.D.)×S×13.5 (O.D)		-						-			
60 + 1.25×2C + 0.75×8C	60	12/94/0.26	-	-	2.75	18.7	0.15	3.0	25.0 (± 0.5)	0.311	-	1,000	to order
	1.25	65/0.16	0.46	2.41						15.6	1,000		
	0.75	41/0.16	0.46	2.10						26.0	1,000		
	Gas Hose	8.0(I.D.)×S×13.5 (O.D)		-						-			
80 + 1.25×2C + 0.75×8C	80	16/94/0.26	-	-	2.75	19.7	0.15	2.5	26 (± 0.5)	0.258	-	1,000	to order
	1.25	65/0.16	0.46	2.41						15.6	1,000		
	0.75	41/0.16	0.46	2.10						26.0	1,000		
	Gas Hose	8.0(I.D.)×S×13.5 (O.D)		-						-			

**Remarks.** The construction of conductor, the number of control wire, and gas hose size can be customized for customer's requirement.



## CO<sub>2</sub> welding extension feeder cable

It is an extension cable to connect the PUSH wire feeder and the PULL wire feeder for CO<sub>2</sub> welding, to connect the power and control function without moving the weight welding machine and wire spool while simultaneously supplying gas and wire.

Since CO<sub>2</sub> welding extension feeder cable has built-in gas hose with suitable hardness and excellent restoring force, it provides excellent gas supply and wire feeding in long-distance working area, and it is easy to replace liner spring.

E-ST 52SQ+10Cx25M



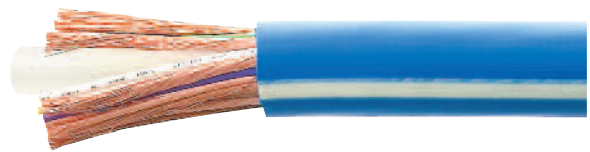
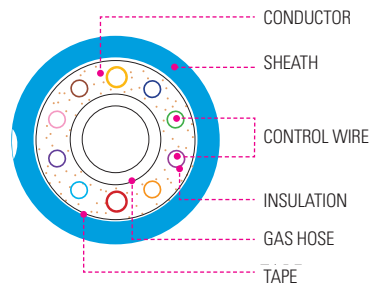
### POWER GRIP

- Built-in gas hose with excellent resilience
- Useful for all welding sites in long distance operation
- Easy replacement of liner spring
- Excellent welding efficiency and quality
- Grip of reinforced construction is not easily damaged by repeated movement or bending



POWER GRIP : EX-SRG

## E-ST



### Applications

- This extension cable connects Push Feeder and Full Feeder and delivers power, CO<sub>2</sub> gas, wire and control function without moving welding machine and extend working range.

### Features

- The ideal conductor combination structure optimized the outer diameter of cable
- Excellent heat-resistance, durability, and chemical resistance of sheath
- Good flexibility and weather resistant sheath.
- Built-in gas hose with proper solidity and excellent resilient provides outstanding feeding ability and very easy to replace liner spring

Nominal sectional area (mm <sup>2</sup> )	Construction								Max. conductor resistance 20°C (Ω/km)	Min. insulation resistance 20°C (MΩ/km)	Test voltage (V/min)	Standard packing (m)	
	Conductor			Gas Hose Thickness (mm)	Stranding Diameter (mm)	Tape Thickness (mm)	Sheath Thickness (mm)	Approx. Overall Diameter (mm)					
	No. & Diameter of wire (mm)	Control wire insulation											
		Thickness (mm)	Diameter (mm)										
50 + 1.25×2C + 0.75×8C	50	13 /72/0.26	-	-	1.5	18.2	0.15	3.0	24.5 (± 0.5)	0.379	-	1,000	to order
	1.25	65 /0.16	0.46	2.41						15.6	1,000		
	0.75	41 /0.16	0.46	2.10						26.0	1,000		
	Gas Hose	10.0(I.D)×13.0 (O.D)								-	-		
52 + 1.25×2C + 0.75×8C	52	12 /81/0.26	-	-	1.5	18.2	0.15	3.0	24.5 (± 0.5)	0.334	-	1,000	to order
	1.25	65 /0.16	0.46	2.41						15.6	1,000		
	0.75	41 /0.16	0.46	2.10						26.0	1,000		
	Gas Hose	10.0(I.D)×13.0 (O.D)								-	-		

**Remarks.** The construction of conductor, the number of control wire, and gas hose size can be customized for customer's requirement.

## WCT





## Applications

- Welding cable for arc welding machine's output

## Features

- Sheath provides good electrical characteristic, heat-resistance, durability, Ozone resistance and chemical resistance

## Certificate

- HB01001-3001A (Electric Appliances Safety Certification) 
- HB01001-3002A (Electric Appliances Safety Certification) 

## WRNCT



## Applications

- Welding cable for arc welding machine's output

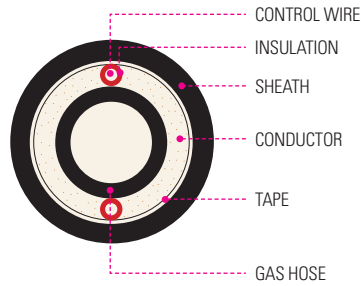
## Features

- Sheath provides good electrical characteristic, heat-resistance, durability, Ozone resistance and chemical resistance

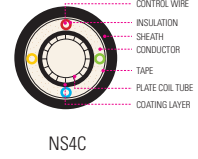
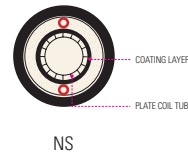
Conductor nominal sectional area (mm <sup>2</sup> )	Conductor max. dia. of wire in (mm)	Coating Summing Thickness (mm)	Composite Coating Sheathe Thickness (mm)	Average Completed Outer Diameter		Maximum Conductor Resistance	
				Lower limit (mm)	Upper limit (mm)	Plating (Ω/km)	No painting (Ω/km)
16	0.21	2.0	1.3	9.2	11.5	1.19	1.16
25	0.21	2.0	1.3	10.5	13.0	0.780	0.758
35	0.21	2.0	1.3	11.5	14.5	0.552	0.536
50	0.21	2.2	1.5	13.5	17.0	0.390	0.379
70	0.21	2.4	1.6	15.5	19.5	0.276	0.268
95	0.21	2.6	1.7	18.0	22.0	0.204	0.198

**Remarks.** General required values of type 60245 IEC 81 and 60245 IEC 82

R



VARIOUS STRUCTURES



Applications

- MIG/MAG welding torch cable for Gas Metal Arc Welding (GMAW).

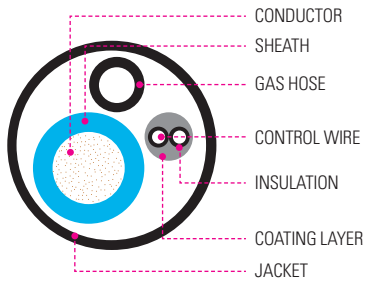
Features

- Hardness of gas hose is very suitable for welding and the resilience is excellent
- Ideal conductor combination structure provides flexibility and excellent usability
- Cable sheath has excellent electrical, mechanical, and chemical properties

Nominal sectional area (mm <sup>2</sup> )		Construction								Max. conductor resistance 20°C (Ω/km)	Min. insulation resistance 20°C (MΩ/km)	Test voltage (V/min)	Standard packing (m)	
		Conductor			Gas Hose Thickness (mm)	Stranding Diameter (mm)	Tape Thickness (mm)	Sheath Thickness (mm)	Approx. Overall Diameter (mm)					
		No. & Diameter of wire (mm)	Control wire insulation											
			Thickness (mm)	Diameter (mm)										
22 + 0.5×2C	22	A	19/22/0.26	-	-	1.5	12.2	0.15	1.75	16.0 (±0.5)	0.844	-	1,000	300
		B	16/54/0.18	-	-						-	-		
	0.5	20/0.18	0.33	1.6	39.0						1,000			
	Gas Hose	8.0 (I.D.)×9.8 (O.D.)		-	-									
30 + 0.5×2C	30	A	18/31/0.26	-	-	1.5	13.6	0.15	1.80	17.5 (±0.5)	0.632	-	1,000	250
		B	20/58/0.18	-	-						-	-		
	0.5	20/0.18	0.33	1.6	39.0						1,000			
	Gas Hose	8.0 (I.D.)×11.0 (O.D.)		-	-									
35 + 0.5×2C	35	A	22/30/0.26	-	-	1.5	14	0.15	1.80	17.9 (±0.5)	0.536	-	1,000	300
		B	24/58/0.18	-	-						-	-		
	0.5	20/0.18	0.33	1.6	39.0						1,000			
	Gas Hose	8.0 (I.D.)×11.0 (O.D.)		-	-									
38 + 0.5×2C	38	A	23/31/0.26	-	-	1.5	14.0	0.15	1.90	18.1 (±0.5)	0.496	-	1,000	250
		B	17/88/0.18	-	-						-	-		
	0.5	20/0.18	0.33	1.6	39.0						1,000			
	Gas Hose	8.0 (I.D.)×11.0 (O.D.)		-	-									
50 + 0.5×2C	50	A	16/59/0.26	-	-	1.5	14.7	0.15	2.00	19.0 (±0.5)	0.379	-	1,000	200
		B	20/98/0.18	-	-						-	-		
	0.5	20/0.18	0.33	1.6	39.0						1,000			
	Gas Hose	8.0 (I.D.)×11.0 (O.D.)		-	-									
60 + 0.5×2C	60	A	19/59/0.26	-	-	1.5	15.7	0.15	2.00	20.0 (±0.5)	0.311	-	1,000	200
		B	24/98/0.18	-	-						-	-		
	0.5	20/0.18	0.33	1.6	39.0						1,000			
	Gas Hose	8.0 (I.D.)×11.0 (O.D.)		-	-									

Remarks. The construction of conductor, the number of control wire, and gas hose size can be customized for customer's requirement.

## TIG-A



## Applications

- Suitable for Air Cooling Tig Welding Torch
- 350Amp: IH TIG 35A-22SQ
- 500Amp: IH TIG 50A-38SQ

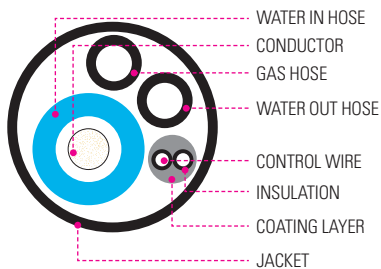
## Features

- Sheath provides excellent flexibility and durability
- All-in-one TIG Welding Torch Cable
- Air cooled structure

## Specification

- 22SQ+0.5X2C / 38SQ+0.5X2C

## TIG-W



## Applications

- Suitable for Water Cooling Tig Welding Torch
- 350Amp: IH TIG 35A-10SQ
- 500Amp: IH TIG 50A-14SQ

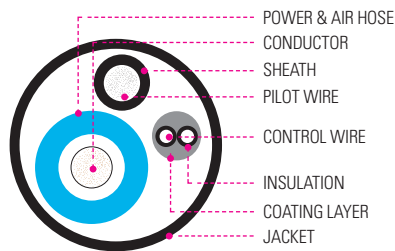
## Features

- Sheath provides excellent flexibility and durability
- All-in-one TIG Welding Torch Cable
- Water cooled structure

## Specification

- 10SQ+0.5X2C / 14SQ+0.5X2C

## PL



## Applications

- Suitable for Air Plasma Cutting Torch Cable
- 80Amp: PL 14SQ

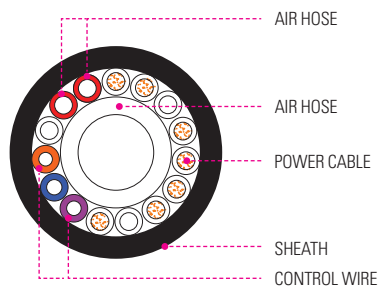
## Features

- Sheath provides excellent flexibility and durability
- All-in-one Plasma Cutting Torch Cable

## Specification

- 14SQ+3.2X1C+0.5CX2C

## PL(H)



## Applications

- Suitable for Air Plasma Cutting Torch Cable
- 80Amp: PL 14SQ

## Features

- Sheath provides excellent flexibility and durability
- All-in-one Plasma Cutting Torch Cable

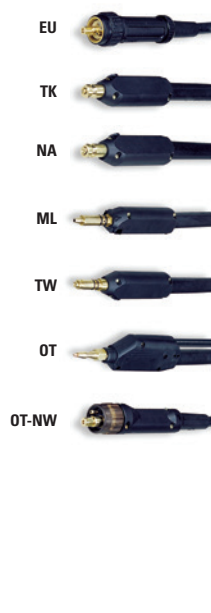
## Specification

- 14SQ+3.2X1C+0.5CX2C

ILHUNG MIG/MAG welding torch is constructed with special cables and guarantees the high quality welding and to be trouble-free for every welding job.



IH 35N(FX)-1230(EU)



## FEATURES

### Certificate of CE

- ILHUNG torches carry CE mark and conform to EN60974-7

### Ergonomic design torch grip

- Excellent handling
- Heat resistant and impact resistant material
- Coupling structure for convenient assembly

### Strong and flexible torch cable

- Special torch cable for various welding operations: R type / NS type
- Plate coil is built in the gas hose. It keeps the original round shape of gas hose perfectly despite of hard bending or curve. (NS cable)
- Smooth wire feeding up to 8M
- Significant reduction of gas consumption
- Easy replacement of liner spring

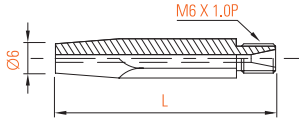


The MIG/MAG welding torch of ILHUNG are arranged in various sizes from 150A to 500A.

		IH 15N	IH 20N	IH 25N	IH 30N	IH 35N	IH 40N	IH 50N	
<b>Technical Data</b>	Rated Current	150A	180A	250A	300A	350A	400A	500A	
	Duty Cycle	60%							
	Cooling type	Air cooling							
	Welding Wire	0.8	0.8~1.2	0.9~1.2	0.9~1.4	1.2~1.6	1.2~1.6	1.2~1.6	
<b>Accessories</b>	Contact Tip	BZ-08A	ICT308~312E	ICT309~312E	ICT309~314E	ICT 312~316E	ICT 312~316E	ICT 312~316E	
	Insulator	INS 200-1	INS 200-1	INS 302(NA)	INS 302(NA)	INS 302(NA)	INS 302(NA)	INS 504(NA)	
	Nozzle	INO 150	INO 200-1(T)	INO 201	INO 302(NA)	INO 302(NA)	INO 302(NA)	INO 504	
	Torch body parts are selected as customer's preference as follows 3 choices								
	①	Gas Diffuser	IWG 20N		IGD 302	IGD 302	IGD 302	IGD 302	IGD 504
		Torch Body			IWG 25N	IWG 35N			IWG 50N
		Torch Body(NA)			IWG 25N(NA)	IWG 35N(NA)			IWG 50N(NA)
	③	Torch body(FX,NA)	-		IWG 35N(FX, NA)			IWG 50N(FX,NA)	
		Front Grip	IGR 20NS			IGR 213NS			
		Liner Spring	LSC 2044		LSC 2048		LSC 2250	LSC 2452	
		IH 15N	IH20N	IH25N	IH30N	IH35N	IH40N	IH50N	

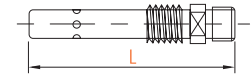


## CONTACT TIP

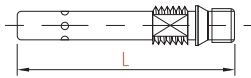


Wire size	Part no.	
	E (45mm)	B (40mm)
Ø0.8	ICT 308E	ICT 308B
Ø0.9	ICT 309E	ICT 309B
Ø1.0	ICT 310E	ICT 310B
Ø1.2	ICT 312E	ICT 312B
Ø1.4	ICT 314E	ICT 314B
Ø1.6	ICT 316E	ICT 316B

## GAS DIFFUSER



M10,11

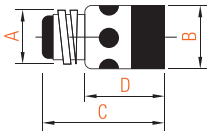


M12

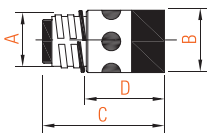


	L	Thread
IGD 301	70	M11 X 1.0P
IGD 302	70	M10 X 1.0P
IGD 504-10	85	M10 X 1.0P
IGD 504-11	85	M11 X 1.0P
IGD 310	74	M12 X 1.0P
IGD 504-12	85	M12 X 1.0P

## INSULATOR

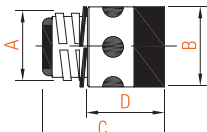


INS 200-1



INS 301

INS 302(NA)



INS 302

INS 302(NA)

INS 504(NA)

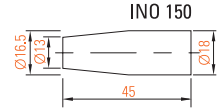
INS 504

INS 504(NA)

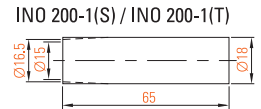
	A	B	C	D
INS 200-1	16Ø	20Ø	25	13
INS 301	18Ø	21Ø	41	27
INS 302	17Ø	20Ø	39	25
INS 302(NA)	17.5Ø	20Ø	39	25
INS 504	21.2Ø	25Ø	38	24
INS 504(NA)	21.8Ø	25Ø	38	25



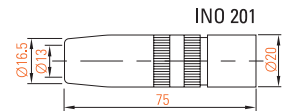
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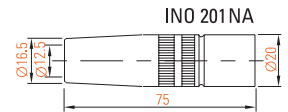
INO 150



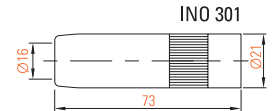
INO 200-1(S) / INO 200-1(T)



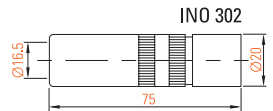
INO 201



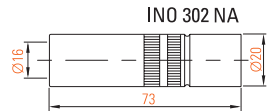
INO 201NA



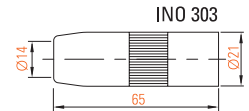
INO 301



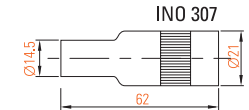
INO 302



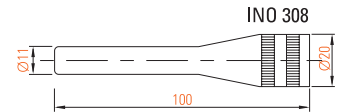
INO 302NA



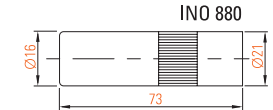
INO 303



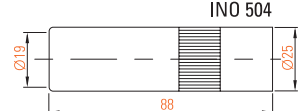
INO 307



INO 308

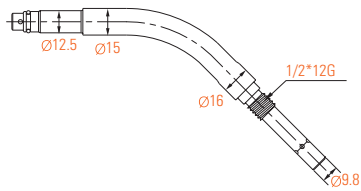
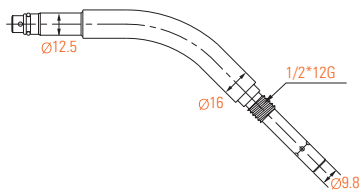
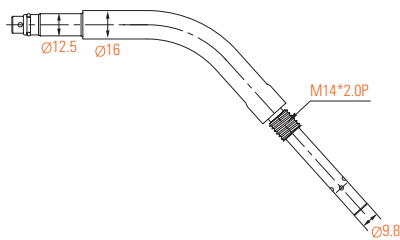
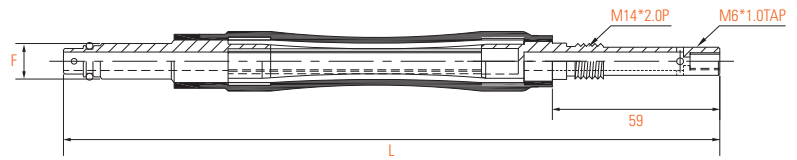
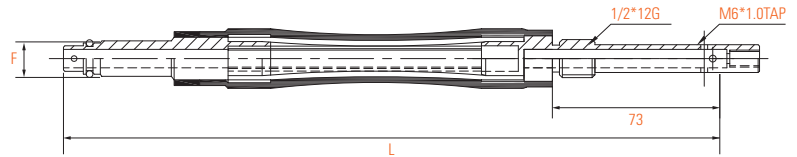
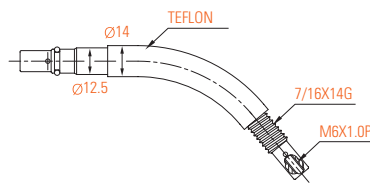
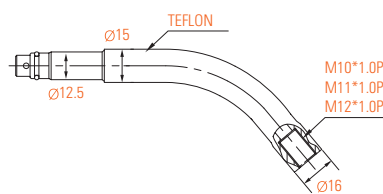
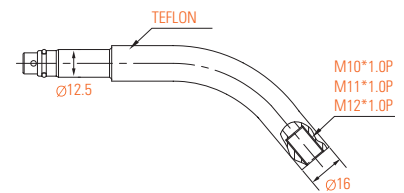
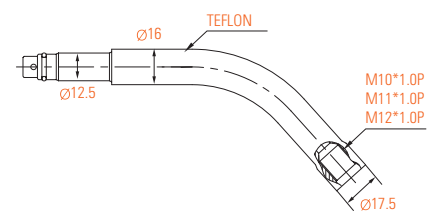


INO 880



INO 504

## TORCH BODY

**IWG 25N(NA)**

**IWG 35N(NA)**

**IWG 50N(NA)**

**IWG 35N(FX,NA) : 250A ~ 400A**

**IWG 50N(FX,NA) : 500A**

**IWG 20N**

**IWG 25N**

**IWG 35N**

**IWG 50N**


## LINER SPRING



EU

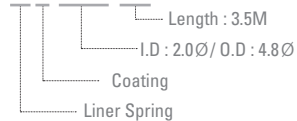


TK



NA

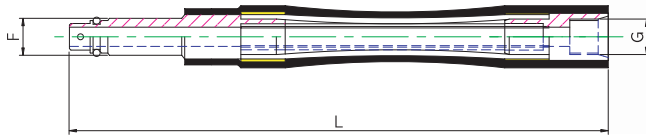
	AMP	Color
<b>LSC 2044</b>	150~180A	SILVER/GREEN
<b>LSC 2048</b>	250~300A	BLACK
<b>LSC 2250</b>	350A	BLACK
<b>LSC 2452</b>	500A	BLUE


**LSC 2048-3.5**


## Best Welding Angle anywhere, anytime!

Flexible torch body will be a great supporter for various welding jobs. It can be easily adjusted to best angle depends on the welding point and ordered various length.

High quality equipment guarantee high efficiency and quality welding result.



IWG 50N(FX)

### FEATURES

- **Optimum bending strength**

It is structured with the optimum bending strength and is steadily curved so that the angle can be adjusted to suit all welding posture and working angle.

- **Insulation sheath**

It is excellent in electrical insulation, heat resistance and durability by using special insulation material

- **Various specifications**

It can be customized at adapter, gas diffuser length etc as customer's needs.

Description		IWG 35N(FX)	IWG 50N(FX)
Rated Current		250A~400A	350A~500A
Adapter	Front Grip (F)	IH, PANA, OTC, BZ as Customized	
	Gas diffuser (G)	M10/M11/M12/ PANA, OTC, BZ as Customized	
Length (L)		180mm, 200mm, 300mm as Customized	

※ It can be manufactured in various lengths and connection according to customer's needs.



IHMR 302-2M(TK)

## ROBOT TORCH

- Durable cable
- Various specification customized

Rated current	350A
Duty cycle	60%
Wire diameter	0.8 ~1.6mm
Standard length	2M



IHPPC-S

## CONDUIT CABLE & PAIL PACK CAP

Conduit cable	IHCC-PP	IHCC-PA
adapter	Plug – Plug	Plug-adapter
Standard length	2M, 3M, 5M	

Pail Pack Cap	IHPPC-S	IHPPC-L
Diameter	510mm	660mm
Wire capacity	200 / 250kg	300 / 400kg

## DIAMOND

- Excellent durability and insulation.
- Perfect welding rod chucking.
- Perfectly and easily connected to cable.



IHA 350



IHA 500



IHA 600

### FEATURES

- Chuck body is ideal for all grooves (+ X +) and is completely chucking to any welding rod.
- Chuck body of brass material is able to obtain stable arc characteristic even with strong current, and it shows excellent welding effect even for long time welding work.
- Body insulation chuck body are molded in one body, so it is not easily damaged by strong impact. Also it is light and firm with special insulation and non-flammable material.
- Since holder body and handle are fastened like a screw, it is possible to assemble and disassemble them without "L" wrench at any place.



IHA 500

	IHA 350	IHA 500	IHA 600
Rated current	350A	500A	600A
Duty cycle	60%		
Electrode diameter	3.2 ~ 6.4	5.0 ~ 9.0	5.0 ~ 10.0
Welding cable	~ 50mm <sup>2</sup>	~ 70mm <sup>2</sup>	~ 95mm <sup>2</sup>

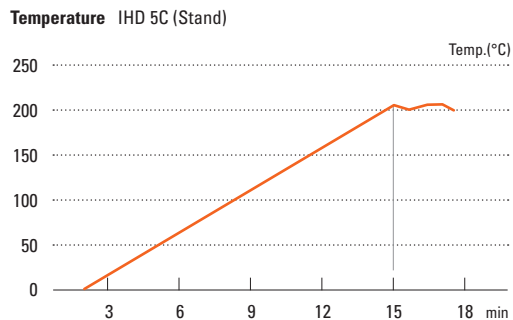
It is easy to carry and any type of welding rod can be dehydrated and dried in a short time. Also it protects the cover completely to meet the optimum condition of welding.



IHD-5P

## FEATURES

- **Compact size** You can carry anywhere.
- **Excellent quality** The welding rod is dried and dehydrated in a short time to satisfy the optimal welding conditions.
- **Superior work efficiency** Optimally dried electrodes improve weld efficiency.



	IHD	IHD 5C-SS	IHD 5P
Specification			
Rated voltage	220V	220V	110V / 220V
Heater capacity	200W	220W	200W
Max. temperature	220°C ± 10%	220°C ± 10%	200°C ± 10%
Rising time	15min	15min	15min
Welding rod capacity	5kg	5kg	5kg
Welding rod length	350~450mm	350~450mm	350~450mm
Type	Code type	Code type	Earth type
Thermostat	-	installed	-

Differentiated technologies are competitiveness. Optimized flexible cable will provide best handing for tig welding job.



## FEATURES

- **Optimized flexible cable**  
Special cable produced by ILHUNG's technology provides high flexibility, superior heat resistance. It is strong against high heat spatter, long time welding.
- **Double insulate structure**  
power cable and head are both double insulated to cut 100% of high frequency.
- **Various models**  
It can be applicable for individual use environment .

IHT 35A(V)-4M



		IHT 35A	IHT 35A(V)	IHT 35A(VF)	IHT 35W	IHT 50A	IHT 50A(V)	IHT 50A(VF)	IHT 50W
Technical Data	Rated current	350A				500A			
	Cooling type	Air-cooled			Water-cooled	Air-cooled			Water-cooled
Accessories	Ceramic Nozzle	ICN 406 ~ ICN 813				ICN 50-06 ~ ICN 50-13			
	Collect Body	ICB 16 ~ ICB 32				-			
	Collect Chuck	ICL 16 ~ ICL 32				ICL 520 ~ ICL 540			
	Head type	TH 35A	TH 35A(V)	TH35A(VF)	TH 35W	TH 50A	TH 50A(V)	TH50A(VF)	TH 50W
		Standard	Valve	Valve & Flexible	Standard	Standard	Valve	Valve & Flexible	Standard
	Back Cap	LC 35 / SC 35				LC 50 / SC 50			
	Gas Nut	9/16" x 18 UNF							
	Water in Nut	-			5/8" x 18UNF	-			5/8" x 18UNF
Water out Nut	-			5/8" x 18UNF	-			5/8" x 18UNF	

CERAMIC NOZZLE

	Part No.	I.D(Ø)	Model
35A	ICN 406	6	
	ICN 508	8	
	ICN 610	10	
	ICN 711	11	
	ICN 813	13	
500A	ICN 50-06	6	
	ICN 50-08	8	
	ICN 50-10	10	
	ICN 50-11	11	
	ICN 50-13	13	

CERAMIC NOZZLE

	Part No.	I.D(Ø)	Model		
35A	ICB 16	16			
	ICB 20	20			
	ICB 24	24			
	ICB 32	32			
	ICL 16	16			
	ICL 20	20			
	ICL 24	24			
	ICL 32	32			
	500A	ICL 520		20	
		ICL 524		24	
ICL 532		32			
ICL 540		40			

BACK CAP

LC 35	
LC 50	



## Speedy and stable cutting performance





Plasma torch (IHPT) is excellent in cutting and durability, ensuring reliable cutting quality from the plate to the thin plate.



### FEATURES

- Head center axis tip, electrode and insulation ring are perfectly aligned, so it provides powerful and accurate high speed cutting.
- Special cable with excellent electrical insulation, abrasion resistance, flexibility is installed. Also, it cuts off high frequency emitted to improve work efficiency and safety.
- Grip is deigned with a built-in insulation switch inside the grip, which cuts out high frequency waves that are emitted at an angle of 100%.

### IHPT - PRO

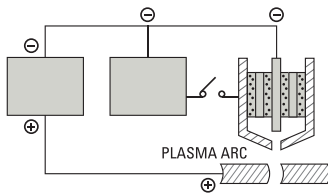
			IHPT 40A		IHPT 80A		IHPT 120A	
Technical Data	Rating		40A		80A		120A	
	Duty Cycle		60%					
	Cooling		Air cooling					
	Power source		non contact ignition type					
Accessories	Head		310304.00002	PH 40	310304.00004	PH 80	310304.00020	PH 120
	Shield Cup		310304.00005	PTCUP 40	310304.00014	PTCUP 80	310304.00014	PTCUP 80
	Tip		310304.00059	PTTIP 40-1.0	310304.00010	PTTIP 80-1.3	310304.00012	PTTIP 80-1.8
			310304.00060	PTTIP 40-1.3	310304.00011	PTTIP 80-1.5		
Electrode		310304.00058	PTER 40	310304.00013	PTER 80	310304.00002	PTER 80	

IHPTS is upgraded for Experts who need :

- Optimized Superior Cutting Power.
- Long life consumables.
- Various models.

※ **What is Plasma?** A high-speed, high-temperature jet-like gas is produced by generating an electric arc between the electrode lead and the base material, and passing through the air, ionized by chemical action, and separated and mixed with electrons and cations. This is called a plasma, to be.

principle



IHPTS-EXPERT

		IHPTS 60A		IHPTS 100A		IHPTS 120A	
Technical Data	Rating	60A		100A		120A	
	Duty Cycle			80%			
	Cooling			Air cooling			
	Power source			Non contact ignition type			
Accessories	Head	310304.00023	PHS 60	310304.00025	PHS 100	310304.00027	PHS 120
	Shield Cup	310304.00031	PTCUPS 60	310304.00032	PTCUPS 100	310304.00033	PTCUPS 120
	Tip	310304.00049	PTTIPS 60-1.2	310304.00010	PTTIPS 100-1.2	310304.00050	PTTIPS 100-1.2
		310304.00053	PTTIPS 60-1.4	310304.00011	PTTIPS 100-1.4	310304.00051	PTTIPS 100-1.4
		310304.00054	PTTIPS 60-1.6	310304.00012	PTTIPS 100-1.8	310304.00056	PTTIPS 100-1.8
	Electrode	310304.00035	PTERS 60-1.2	310304.00010	PTERS 100-1.2	310304.00036	PTERS 100-1.2
		310304.00042	PTERS 60-1.6	310304.00011	PTERS 100-1.6	310304.00037	PTERS 100-1.6

## Fully automatic welding helmet - Autopilot IH816FB(AD)

ILHUNG, Korea's Leading Company for Welding Safety Protection field, has released the 2017 breakthrough auto darkening welding helmet IH816FB (AD) with the best technology and design. Experience the best with world-class technology.





## FEATURES

- **Adaptive Shade Autopilot**

The adaptive shade level function automatically adjusts the perfect shade level without manual change. Therefore you always keep the best shade regardless switching parameter. This allow your eyes in the best condition all the time while welding.

- **Truicolor Filter**

Thanks to a special UV/IR filter, the PHAROS IH816FB(AD) provides a real color which has never been experienced before.

- **Light weight & Comfort**

Ergonomic designed headband has stable weight centered structure. It reduces fatigue of neck and head. Double insulation shield protect welders from welding spatters and fume.

- **Grind Mode**

Since simple grind switch is installed in battery case, it can be applied to grinding job as well.

- **2 Year Warranty**

<b>Shade level</b>	Visible range not activated	#3
	Visible range activated	#7-13
	Control	Automatically set protection level by $\pm 2$ depending on personal preference
<b>Switching time</b>	Dark to light	150 $\mu$ s
	Bright to dark	0.1sec or 1.0sec
<b>Dimensions</b>	Vision	50x100mm
	Cartridge	90x110x7mm
	Helmet shell	246x328x274mm
<b>Power supply</b>	Type	Solar cell (CR2032 (3V) x 2EA)
	Operating time	Approx. 3000hr
<b>Temperature</b>	Operating Temp.	-10 $^{\circ}$ C~70 $^{\circ}$ C/14 $^{\circ}$ F~157 $^{\circ}$ F
	Storage Temp.	-20 $^{\circ}$ C~80 $^{\circ}$ C/-4 $^{\circ}$ F~175 $^{\circ}$ F
<b>Weight</b>	Cartridge	100g (without Battery)
	Helmet shell	422g (without Cartridge)
<b>EN379 Classification</b>	Optical class	Class 1
	Scattering light	Class 1
	Homogenety	Class 1
	Angular dependence	Class 2
<b>Sensor</b>	3EA	
<b>Application ranges</b>	Electrode welding(Stick Welding, SMAW)/MIG/MAG(GMAW)/FCAW/ TIG(GTAW)/ Plasma Arc Welding/ Micro Plasma Arc Welding/ Plasmacutting&Oxy-gas Welding/ Grinding mode. * prohibited for laser welding	

## Single shade ADF VW-5200, Compact size, Impact function.

As the lighthouse becomes the indicator of the dark night, it will be a valuable guide to improve the quality of welding by ensuring the best view to the welder by completely shielding from arc without manual adjustment.



HAPPY GLASS VW-5200



IH111FB(AD#12)

### FEATURES

- Single shading cartridge HAPPY GLASS VW-5200
- High sensitivity sensor
- Completely protected from harmful light(UV, IR)
- High quality polarizing filter and LCD
- Minimize battery power consumption through solar cell power supply for long time use
- Compact size
- Practical usage without shading adjustment
- Special material is used for excellent heat resistance and durability.
- Excellent fitting due to ergonomic design
- Korea Occupational Safety & Health Agency Safety Certification

		IH111FB(AD#11)	IH111FB(AD#12)
Shade level	Inactivated	#2.5	
	Activated	#11	#12
Switching time	Light to dark	1/10,000(0.00001)sec	
	Dark to light	0.75sec	
Power Supply	Battery	CR1220 × 2	
	Solar Cell	7.5V	
	Operating time	1,500hr	
Dimension	Vision	94.5 × 32.5mm	
	Cartridge	107.5 × 53.0 × 6.5mm	
Temperature	Operating temp.	-5°C ~ +55°C	
	Storage Temp.	-20°C ~ +70°C	
Weight	Cartridge	55g	
	Helmet	480g	

- Ergonomic design
- Sufficient protection space

#### FEATURES

- No deformation due to the highly durable material.
- Lightweight and robust.
- Ergonomic design makes it comfortable to wear.
- Enlargement of the protective area ensures sufficient internal space and excellent facial protection in any welding posture.
- Special coating treatment prevents welding spatter, improves heat resistance, and has excellent thermal insulation effect.



#### IH 408FB

- Flip-up cap / Comfort Headband
- Ergonomic design ensures optimal interior space and welding visibility
- Weight: 395g (without welding glass)



#### IH 330FH

- Handle
- Anti-deformed structure
- Weight: 405g (Without welding glass)

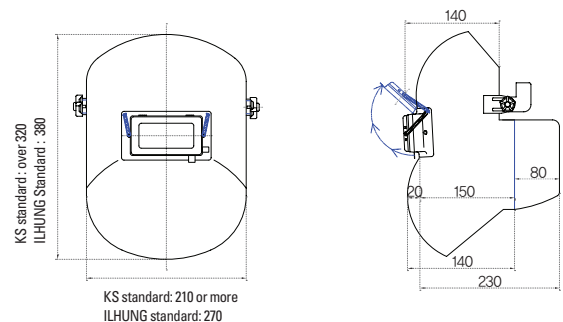
**The welding surface should be light and rigid.  
Heat and light shielding ability from the arc are the most important.**

Designed and manufactured with thorough quality control, vulcanized fiber welding surface is an ergonomic product with emphasis on heat resistance, high tensile strength, electrical insulation and light weight in consideration of the fatigue of workers who weld for a long time.



- A** Flip-up window frame
- B** Swelled structure for wearing dustproof mask
- C** Vulcanized fiber VFS-2, excellent impact resistance, heat resistance
- D** Structure with angle maintained. Wide protection with pass-over spatter
- E** Compatible with any safety helmet. Easy to fit safety cap. Robust material
- F** Ear protection from welding spatter and noise

IH 720SA-1



**HANDLE TYPE (PASSIVE)**



**HEADBAND TYPE**



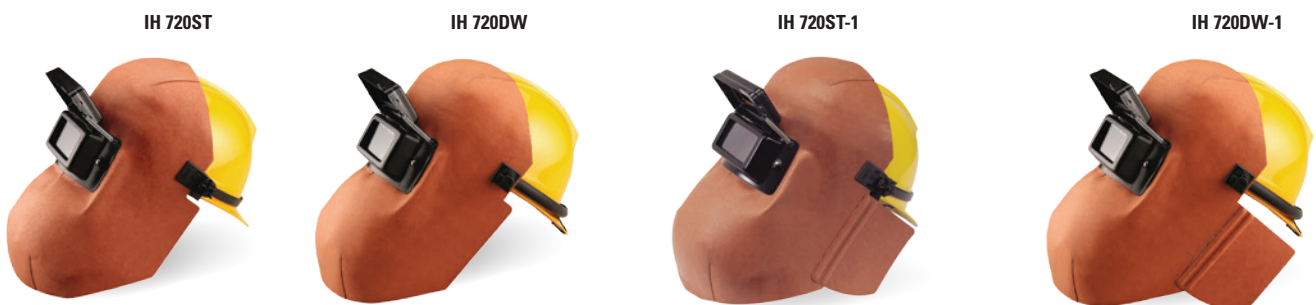
**HEADBAND & FLIP-UP CAP TYPE**



**SAFETY CAP TYPE**



**SAFETY CAP & MASK TYPE**





## e3000



## TECHNICAL DATA



- Integrated, automatic air flow control
- High performance battery
- Simple operation for low operating costs
  - Adjustable air flow
  - Mountain breeze odor filter

## TECHNICAL DATA

Description	Powered Air Purifying Respirator with integrated airflow-sensor and three selectable flow rates	Type	TH3P R SL filter for TH3P system (EU)
Protection level	Protection level TH3 (EN 12941)	Hose length	0.7 m (elastic up to 1.3 m)
Flow rates	Level 1: min. 150 l/min Level 2: min. 200 l/min Level 3: min. 250 l/min	Standards	EN 12941:1998/A2:2008, AS/NZS 1716:2012, EAC: TP TC 019/2011
Fuse	Electronic fuse	Notified body / Lic. No.	CE 1024, SAI Global, EAC
Noise	max. 70dbA	Scope of delivery	Blower unit with hose, TH3P R SL filter, battery, fabric belt, charger, user instructions
Dimensions	222 x 213 x 92,6 mm (LxWxH)	Warranty	2 years from date of sales for manufacturing and material defects, 6 months warranty for battery
Weight	1.560 g (incl. filter, belt, and battery) 1.750 g (longlife-model with Power battery)		
Color	green or blue		

The optrel e3000 PAPR system can be used in combination with the following PAPR and grinding helmets:



e684

Art. Nr. 4441.600



vegaview2.5

Art. Nr. 4441.800



liteflip autopilot

Art. Nr. 4441.700



g300

Art. Nr. 4900.000

e684



Fully automatic welding helmet in HD quality.

FEATURES



- Adaptive Shade Autopilot
- High Definition Viewing
- Cooling Helmet Design
- Wellness for the Eyes
- Increased Safety! Enhanced Productivity!
- Multi-Purpose Use

vegaview2.5



Bright, Brighter, vegaview2.5

FEATURES



- World record ADF  
Shade level 2,5 / 8-12
- Grind mode
- TrueColor Filter
- Respiratory Protection
- Lightweight
- 2+1 Year Warranty

## p550



## High efficiency, Best price, Optrel Classic

### FEATURES



- Shade level 4 / 9-13
- Delay function
- New Energy concept
- True color view
- Lightweight

## LITEFLIP AUTOPILOT



## Look into the future. The first flip-up with autopilot arrived.

### FEATURES



- Autopilot with shade levels 3/7-13
- True-Color view
- Lightweight
- Respiratory protection
- 2+1 Year warranty

## Why Ilhung

### 40 YEARS' EXPERIENCE

ILHUNG was founded in Busan, Korea in 1976 and has been grown as a leader for welding industry in Korea with development of Korea shipbuilding. Through these long experience, ILHUNG's products have evolved to foremost quality.

### WELDING TOTAL SOLUTION

We have a know-how and network for the full range of welding products such as welding cable, equipment, wire, m/c etc and this make us to be able to efficiently supply one stop service for customer's needs.

**ILHUNG**

### WORLDWIDE ILHUNG

We have been exporting our products to worldwide since 1997 and have partners in over 28 countries. Our highly trained staffs are doing our best to meet our world customers.

### CONTINUOUS INNOVATION

ILHUNG has been developed new products and renewed previous products to meet customers satisfaction and supply better value to welders.

ILHUNG believes partnership makes better value.  
This valuable partnership will lead your business success.







# Welding Total Solution









A welder is shown in the lower right corner, wearing a protective mask and working on a large, curved metal structure. The scene is filled with bright orange and yellow sparks and a blue flame, set against a dark background with a fine grid pattern.

**WELDING  
TOTAL  
SOLUTION**



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The ILHUNG logo is centered within a circular graphic element. It consists of the word "ILHUNG" in a bold, orange, sans-serif font. The letter "I" is stylized with a vertical line extending upwards. The logo is surrounded by a thin orange circular border, and four orange lines radiate from the center of the circle towards the corners of the page, creating a cross-like structure.

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